

DELO PHOTOBOND OC4022

modified acrylate | 1C | UV- / VIS-curing

free of solvents | tension-equalizing

Special features of product

- compliant with RoHS Directive 2015/863/EU
- halogen-free according to IEC 61249-2-21

Typical area of use

- -40 - 85 °C
- touch panel bonding
- display bonding
- laminar glass bonding

Curing

Suitable lamp types LED 365 nm, LED 400 nm

Recommended irradiation time

intensity 55 - 60 mW/cm²
LED 400 nm 30 s

intensity 200 mW/cm²
LED 400 nm 20 s

Processing

Adhesive application needle-dispensable

Storage life in unopened original container

at 0 °C to +10 °C 6 month(s)

Technical properties

Color in uncured condition colorless

Color in cured condition in 0.1 mm layer thickness colorless

Color in cured condition in 1 mm layer thickness colorless

Parameters

Density 1.0 g/cm³
Liquid

Viscosity <i>Based on DIN EN 12092 Liquid</i>	800	mPa·s
Stud pull test <i>DELO Standard 48 Glass Glass 400 nm 60 mW/cm² 60 s</i>	0.5	MPa
Shear modulus <i>DELO Standard 45 DMTA</i>	8	kPa
Glass transition temperature <i>DMTA</i>	-53	°C
Shrinkage <i>DELO Standard 13</i>	1.8	vol. %
Index of refraction <i>Refractometer</i>	1.48	
b value <i>DELO Standard 25</i>	1.3	

Converting table

°F = (°C x 1.8) + 32	1 MPa = 145.04 psi
1 inch = 25.4 mm	1 GPa = 145.04 ksi
1 mil = 25.4 µm	1 cP = 1 mPa·s
1 oz = 28.3495 g	1 N = 0.225 lb

General curing and processing information

The curing time stated in the technical data was determined in the laboratory. It can vary depending on the adhesive quantity and component geometry and is therefore a reference value. Increasing or decreasing the curing temperature and / or irradiation intensity shortens or prolongs the curing time and can lead to changed physical properties. All curing or light fixation parameters depend on material thickness and absorption, adhesive layer thickness, lamp type and distance between lamp and adhesive layer. Values measured after 24 h at approx. 23 °C / 50 % r.h., unless otherwise specified.

General

The data and information provided are based on tests performed under laboratory conditions. Reliable information about the behavior of the product under practical conditions and its suitability for a specific purpose cannot be concluded from this. It is the customer's responsibility to test the suitability of a product for the intended purpose by considering all specific requirements and by applying standards the customer deems suitable (e. g. DIN 2304-1). Type, physical and chemical properties of the materials to be processed with the product, as well as all actual influences occurring during transport, storage, processing and use, may cause deviations in the behavior of the product compared to its behavior under laboratory conditions. All data provided are typical average values or uniquely determined parameters measured under laboratory

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Instructions for use

The instructions for use are available on www.DELO-adhesives.com.

We will be pleased to send them to you on demand.

Occupational health and safety

See material safety data sheet.

Specification

Nothing contained in this Technical Datasheet shall be interpreted as any express warranty or guarantee. This Technical Datasheet is for reference only and does not constitute a product specification. Please ask our responsible Sales Engineer for the applicable product specification which includes defined ranges. DELO is neither liable for any values and content of this Technical Datasheet nor for oral or written recommendations regarding the use, unless otherwise agreed in writing. This limitation of liability is not applicable for damages resulting from intent, gross negligence or culpable breach of cardinal obligations, nor shall it apply in case of death or personal injury or in case of liability under any applicable compulsory law.

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